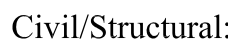


City of Lowell, MA



PB Parsons Brinckerhoff
Quade & Douglas, Inc.
75 Arlington Street
Boston, MA 02116
Tel: 617-426-7330
Fax: 617-482-0642

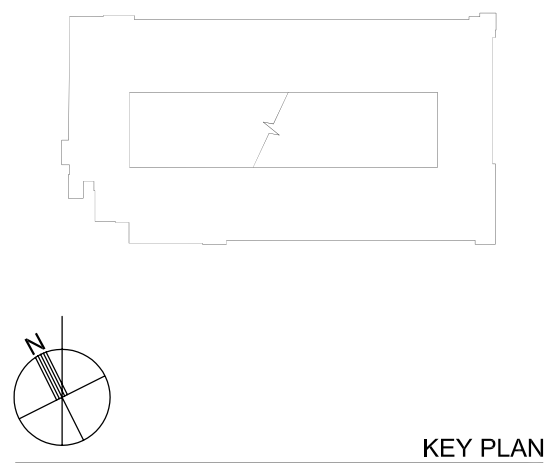
Architecture:
Fennick McCredie
Architecture, Ltd.

Survey:
Judith Nitsch Engineering

Cost Estimating:
Hanscomb, Faithful & Gould

Code Compliance:
Robert W. Sullivan, Inc.

Landscape Architecture:
Pressley Associates, Inc.

[illegible]

PLUMBING - LEGEND, SCHEDULES, ABBREVIATIONS AND GENERAL NOTES

P-01

SYMBOL	DESCRIPTION
	GARAGE WASTE PIPE UNDER GROUND
	GAS PIPE ABOVE GROUND
	DOMESTIC HOT WATER
	DOMESTIC COLD WATER (POTABLE)
	SANITARY WASTE DRAIN UNDER GROUND
	STORM WATER DRAIN UNDER GROUND
	VENT
	GATE VALVE
	BALL VALVE
	CHECK VALVE
	CAP OR PLUG
	UNION
	BACKFLOW PREVENTER
	PLUG VALVE
	AUTOMATIC AIR VENT
	STRAINER w/ BLOW OFF VALVE
	WATER METER
	VACUUM BREAKER
	WALL HYDRANT
	NON-FREEZE FLOOR HYDRANT
	CONTROL PANEL
	PRESSURE GAUGE
	THERMOMETER
	FLOW SWITCH
	PRESSURE SWITCH
	AUTOMATIC TRAP PRIMING VALVE
	HOSE BIB
	FLOOR DRAIN
	FLOOR CLEANOUT
	CLEANOUT
	BACKWATER VALVE
	SHOCK ABSORBER
	ABOVE FINISHED FLOOR
	PIPE DOWN
	PIPE UP

1. ALL PIPING AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ALSO REFER TO ARCHITECTURAL, STRUCTURAL DRAWINGS.
2. FABRICATE AND INSTALL ALL PIPING IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE MASSACHUSETTS STATE PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL AUTHORITIES HAVING JURISDICTION.
3. ALL HORIZONTAL VENT PIPES WILL PITCH TO ALLOW FOR DRAINAGE.
4. HOT AND COLD WATER PIPES TO FIXTURES SHALL BE INSULATED.
5. PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING PIPE LOCATIONS WORK WITH OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.
6. FOR ADDITIONAL NOTES AND REFERENCES, SEE SPECIFICATIONS.

PLUMBING DESIG.	FIXTURE DESCRIPTION	CONNECTION SIZES (INCHES)				REMARKS
		S/W	V	CW	HW	
P-1	WATER CLOSET (TWO LOCATIONS)	4"	2"	1"	—	1.6 GAL/FLUSH HANDICAP ACCESSIBLE FLOOR MOUNTED
P-2	LAVATORY (TWO LOCATIONS)	1 1/2"	1 1/2"	1/2"	1/2"	HANDICAP ACCESSIBLE
P-3	MOP SINK (JANITOR)	3"	1 1/2"	1/2"	1/2"	24"x24"x10"
P-4	KITCHEN SINK (KITCHENETTE)	2"	1 1/2"	3/4"	3/4"	STAINLESS STEEL 16"x18"

DESIGN	LOCATION	STORAGE (GAL)	RECOVERY RATE GAL/HR	SETTING TEMP. (°F)	POWER REQ. KW/VOLTS/PH	REMARKS
WH-1	JANITOR'S CLOSET GROUND TIER	20	31	110	9/208/3	INSTALLED ON FLOOR PRESSURE & TEMPERATURE VALVE DRAIN PIPED TO FLOOR DRAIN WITH AIR GAP
WH-2	KITCHEN/OFFICE GROUND TIER	12	18	110	6/208/3	INSTALLED ON SHELF PRESSURE & TEMPERATURE VALVE DRAIN PIPED TO LAVATORY DRAIN WITH AIR GAP

PLUMBING DESIG.	CAPACITY (GPM)	HEAD (FT)	ARRANGEMENT	PUMP *	POWER REQUIREMENTS			REMARKS
					HP	VOLT	PH	
PUMPS* NO. 1 & 2	16	16	SUMP LEVEL CONTROLS ON @ 3.5" OFF @ 1.75"	H x L 11.8x10.3 6.8"W	.4	120	1	IN ELEVATORS 1 AND 2 SUMPS— SUMP PUMPS FURNISH AND INSTALL— OPERATED BY LEVEL SWITCH

*SUBMERSIBLE PUMP LITTLE GIANT PUMP 9S-CIA-RPS OR EQUAL

ABBREVIATIONS

CW	COLD WATER
FD	FLOOR DRAIN
G	GAS
GD	GARAGE DRAIN
GI	GREASE INTERCEPTOR
HW	HOT WATER
RWL	RAINWATER LEADER
TD	TRENCH DRAIN
V	VENT
VTR	VENT THRU ROOF

60% SUBMITTAL
May 2, 2005